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being additions to our list. *Dichelyma subulatum* is changed to *Brachelyma*, and *D. Swartzii* is reduced to *Hypnum fluitans*.

E. G. B.

Enumeratio Muscorum Caucasi. V. F. Brotherus. (Acta Soc. Sci. Fenn. xix. 170 pp. quarto, 1892).

This beautiful memoir is a very important contribution to geographical Bryology, and of much interest to American students, many of the species occurring on this side of the Atlantic.

Although the author claims to follow Lindberg in the nomenclature, we notice several discrepancies, which are interesting, as being also unlike Braithwaite's accepted names—*Encalypta* for *Leersia*, *Mnium* for *Astrophyllum*, *Ulota* for *Weissia*, *Orthotrichum* for *Dorcadion* and *Amphidium* for *Anætangium*. The descriptions of new species are by Lindberg, Brotherus, Muller and Venturi, twenty-four Acrocarpi and ten Pleurocarpi being characterized. Four hundred and twenty Musci, six *Sphagna* and thirty-four Hepaticæ are listed.

E. G. B.

Index to Recent Literature Relating to American Botany.

Ægagropilen—Ueber. G. Lagerheim. (Nuova Notarisia, iii. 89-95).

Albinos among Orchids. Anna Murray Vail. (Gard. and For. v. 395).

Amarantus crassipes. John M. Holzinger. (Bot. Gaz. xvii. 254-256, one plate).

Arisæma triphyllum—On the Development of the Embryo-sac of. D. M. Mottier. (Bot. Gaz. xvii. 258-260; one plate).

Aster amethystinus. (Gard. and For. v. 377, with figure).

This illustration, it is claimed, is the first ever published of the above species.

Botanical Tramp—A Rocky Mountain. F. D. Kelsey. (Zoë, iii., 108-113).

An account of the plants observed in a botanical excursion in the vicinity of Helena, Mont.

Botrychium Virginianum—On the Apical Growth of the Stem

and the Development of the Sporangium of. C. L. Holtzman. (Bot. Gaz. xvii. 214-217; one plate).

Check List of the Plants of Kansas. Bernard M. Smyth. (8vo. pp. 34, Topeka, 1892).

1764 species and varieties of flowering plants and 164 ferns and mosses are enumerated, and their distribution indicated.

Cochlearia Groenlandica, L. Edward S. Marshall. (Journ. Bot. xxx. 225, 226, plate 326).

Connecting Forms among Polyporoid Fungi. Lucien M. Underwood. (Zoë, iii. 91-95).

An argument in favor of uniting some of the now recognized genera of this order.

Cypress Tree—A Large. (Meehan's Month. ii. 135).

With an illustration of John Bartram's tree near Philadelphia.

Desmids from New Hampshire—New. Wm. N. Hastings. (Amer. Month. Micros. Journ. xiii. 153-155, with plate).

New species and varieties are described and figured in the genera *Euastrum*, *Xanthidium*, *Staurostrum* and *Closterium*.

Desmids—How to Collect. Wm. N. Hastings. (The Microscope xii. 147-150).

Diatoms of the Connecticut Shore, I. W. A. Terry. (Am. Micros. Journ. xiii. 185).

Diatoms of the Florida Coast—Notes on the. C. Onderdonk. (The Microscope, xii. 78, 79).

A new species, *Actinoptychus pentagonalis*, is noted.

Dictionary of Botanical Terms. A. A. Crozier. 8vo. pp. 202. New York. Henry Holt & Co., 1892).

A complete account of the terminology of modern botany has long been a great desideratum, and the work here noticed, to the production of which Mr. Crozier has devoted a great amount of research, will be welcomed by all botanical students. It covers the whole field of botany, including special terms used in agriculture and horticulture. In the progress of the science some terms formerly in use have become obsolete, and most of these are omitted, although all which have any present appli-

cation are retained. The very numerous synonyms are reached by cross references. In every case the pronunciation of the term is indicated.

The book is handsomely printed and well bound, and should find place in the libraries of all botanists. N. L. B.

Flora of Chicago and Vicinity—Notes on the. E. J. Hill. (Bot. Gaz. xvii. 246-252).

Houttynias—The. (The Garden, xlii. 111).

A note on and illustration of *Houttynia Californica*

Lindbladia—On the Genus. Geo. A. Rex. (Bot. Gaz. xvii. 201-205).

A discussion of the history and characters of this genus of Myxomycetes, with description of *L. effusa*, var. *simplex*, n. var.

Living Fossils. E. H. Barbour. (Bot. Gaz. xvii. 223).

Description of the growth of a *Chara* at Fall River, S. Dak.

Mariposa County as a Botanical District, III. J. W. Congdon. Zoë, iii. 123-131).

This installment of Mr. Congdon's paper is mainly devoted to an account of the plants of the Coniferous Belt.

Metaspermæ of the Minnesota Valley—Introduction. Conway Macmillan. (8vo. pp. 36; Minneapolis, 1892).

This is the preface to a "Flora" of the region, prepared for the Geological and Natural History Survey of the State, reprinted in advance from the main document, which will be reviewed in these columns when issued.

Michigan Flora. W. J. Beal and C. F. Wheeler. (8 vo. pp. 180; Lansing, 1892).

This is a new catalogue of Michigan Plants, Anthophyta and Pteridophyta, prepared for the Thirteenth Annual Report of the Secretary of the State Board of Agriculture. It enumerates 1746 species and varieties, indicating the habitat and distribution, and citing localities for the rarer ones. The catalogue proper is prefaced by sixty-six pages of matter dealing with the economic aspects of the Flora, its geographical distribution, bibliography, herbaria consulted, manuscript lists employed, the effect of clim-

ate and soil on distribution, timber-trees, weeds, the procession of flowers, and many other notes of importance and value.

N. L. B.

Mobile Diatom Deposits. K. M. Cunningham. (Amer. Month. Micros. Journ. xiii. 169, 170).

A list of species identified by Dr. D. B. Ward.

Monstera deliciosa. (The Garden, xlii. 99. illustrated).

Native Shrubs of California. Edward L. Greene. (Gard. and For. v. 436).

Nomenclature—A Note on. Alphonse De Candolle. (Zoë, iii. 172, 173).

Translated from the author's note in French in the May issue of the Journal of Botany.

Nomenclature of Plants. Katharine Brandegee. (Zoë, iii. 166-172).

Nomenclature—Botanical. (Gard. and For. v. 362).

Comments on the circular sent out by the Committee of German botanists appointed to amend the laws of botanical nomenclature as adopted at the Paris Conference of 1867.

North American Helicosporæ. A. P. Morgan. (Journ. Cincin. Soc. Nat. Hist. xv. 39-52; 21 figures).

Descriptions and illustrations of the North American species of the genera *Helicomycetes*, *Helicoma*, *Helicoon*, new genus, *Everhartia* and *Troposporium*. A number of new species are characterized.

Notes on American Wild-Flowers. Wilfred A. Brotherton. (Am. Gard. xiii 516).

With illustrations of *Dicentra Cucullaria*, *Asarum Canadense*, *Liparis liliifolia*, *Mitella diphylla* and *Smilacina racemosa*.

Notes on the Flora of Smythe County, Virginia. Anna Murray Vail. (Gard. and For. v. pp. 364, 375, 388, 424, 437).

Notes on Exotic Fungi in the Royal Herbarium, Kew. Geo. Masee. (Grevillea, xxi. 1-6).

Geaster involutus from St. Domingo, *Diatrype artocreas* from St. Vincent and *Dendrographium atrum* from the Amazon Valley,

are American species described as new, the latter a new genus.
Our Native Orchids. Francis Wilson. (Am. Gard. xiii. 518).

With illustrations of *Goodyera pubescens* and *Corallorhiza multiflora*.

Phyllosiphon, Kuhn—*Neue Arten der Gattung*. G. Lagerheim.
 (Nuova Notarisia, iii. 120-124).

Descriptions and illustrations of three new species from Ecuador.

Pink and Yellow Pond Lilies. W. W. Bailey. (Bot. Gaz. xvii. 229).

Record of a pale-yellow form of *Castalia odorata* from Cape Cod, where the pink form is abundant. Prof. Bailey notes also, the occurrence of *Lotus corniculatus* at Providence.

Recent Work in Systematic Hepaticology. L. M. Underwood.
 (Bot. Gaz. xvii. 218-220).

Relation of Certain Fall to Spring Blossoming Plants.—II. A. F. Foerste. (Bot. Gaz. xvii. 223-245).

Rhus—*Notes on the Genus*. T. J. W. Burgess. (Journ. and Proc. Hamilton Assoc. 1891-92, 119-130).

Root-Pressure—An Apparatus for Determining the Periodicity of. M. B. Thomas. (Bot. Gaz. xvii. 212-214; one plate).

Salicornia mucronata. (Meehan's Month. ii. 129; with colored plate).

The author of this note points out the erroneous use of the common name "Samphire" for *S. mucronata*, the true Samphire being an umbelliferous plant, *Crithmum maritimum*, extensively used on the English coast for pickles. *Salicornia herbacea*, the species common on European shores, especially along the Mediterranean, where during the last generation large quantities of it were dried and burned for its ashes, which then were used in the manufacture of glass and soap, was known as "Glass-wort," a name which is also used for the American species.

Sequoia gigantea—*Discovery of a New Grove of*. Wm. W. Price. (Zoë, iii. 132, 133).

Note on a group of six trees in Placer Co., Cal., believed to be the most northern known.

Shark River Diatoms. Albert Mann, Jr. (Sea Side Torch, iv. 143).

Smilax glauca. (Gard. and For. v. 424, with illustration).

Some Attractive Native Plants. L. H. Bailey. Am. Gard. xiii. 513).

Illustrations are given of *Cypripedium pubescens*, *C. acaule*, *C. parviflorum* and *Habenaria fimbriata*.

Some Results of a Year's Work. Arthur C. Wagborne. (Evening Herald, St. John's, New Foundland, June 15, 1892.)

Mr. Wagborne gives an interesting summary of the number of species of plants collected by him in Labrador and New Foundland, and makes especial reference to *Capsella divaricata*, found on the beach at Couche, stating that it has hitherto been found at but one place in North America, namely, the interior of British Columbia. But in this he is in error, for it was collected by Mr. J. A. Allen in 1882, on the seashore of the Dead Islands, Labrador, and is of very wide distribution on the Pacific Coast (see BULLETIN xvii. 311).

N. L. B.

Strawberry Leaf—Interesting Variations of the. Mrs. W. A. Kellerman. (Bot. Gaz. xvii. 257. 258, illustrated).

Sugar Maple in Ohio.—A. (Gard. and For. v. 380, a full page illustration.)

Tendrils of Passiflora corzulea. D. T. MacDougal. (Bot. Gaz. xvii. 205-212, one plate.

The Plea of Expediency. N. L. Britton. (Bot. Gaz. xvii. 252-254).

Variations and Intermediate Forms of Certain Asters. W. C. Warner. (Journ. Cincin. Soc. Nat. Hist. xv. 55-58).

A discussion of the *Asters* of the group *Heterophylli*, as they occur in Ohio.

Western Shad-Bush—The. (Gard. and For. v. 409).

Notes on the geographical distribution of *Amelanchier alnifolia*, with the reproduction of a photograph of the tree as it appears in Washington.

Your Weeds and Your Neighbor's. C. F. Millspaugh. (Bull. W. Va. Agric. Exper. Sta.)

Dr. Millspaugh, as botanist of the West Virginia Experiment Station, has made a thorough study of the weeds of his State, the results of which have appeared in a series of bulletins under the above title. Part II deals with the distribution of weeds, their bad points, uses for fodder, and chemical weed exterminators. Part III is a descriptive list of the weeds of West Virginia grouped in their natural orders. An even two hundred are enumerated, which are classified as follows:

	1st Class. Worst.	2d Class. Bad.	3d Class. Indifferent.	TOTAL.
Perennial, . . .	42	45	38	125
Biennial, . . .	13	6	1	20
Annual, . . .	27	17	11	55
Total,	82	68	50	200

With many of the worst species a small engraving is given, showing the plant or a portion of it, and usually a characteristic part more magnified.

A list of the diseases for which the weeds—referred to by number—are used is given. There is likewise an extended list of the common names of weeds.

The farmers and the crop growers of West Virginia are fortunate in having such a thorough work upon their weeds placed within easy reach of all.

B. D. H.

Yucca pollination. H. J. Webber. (Am. Nat. xxvi. 774).

Zygopetalum crinitum. A. H. (The Garden, xlii. 140).

A colored plate of the above species and notes on *Z. Burkei*, *Z. brachypetalum*, *Z. Mackayi*, *Z. maxillare*, and *Z. rostratum*.

Zygopetalum graminifolium. R. A. Rolfe. (Gardn. Chron. xii. 179).

The description of a new species from South Brazil.